

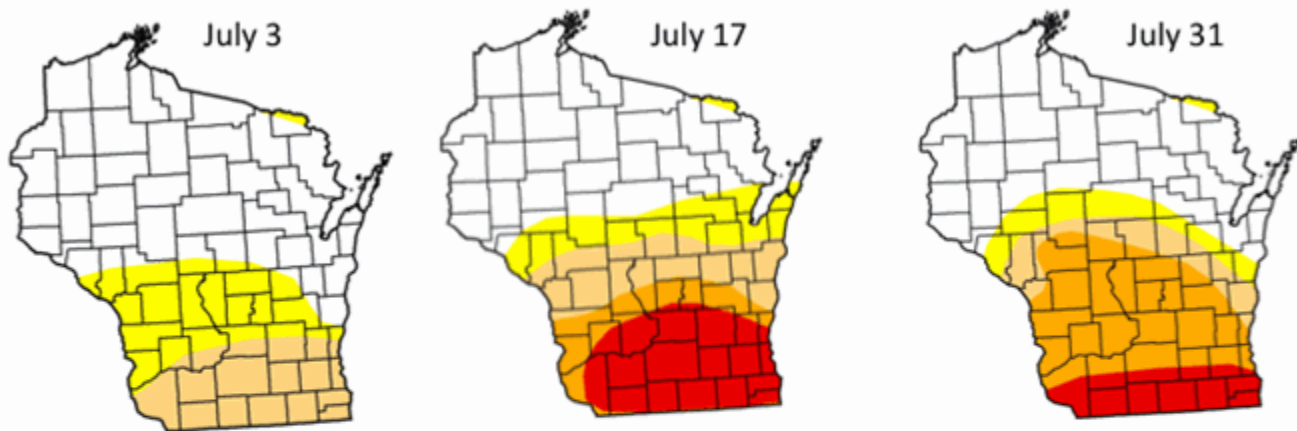
Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAKE MICHIGAN				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	07/13/12 13:15 CST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/13/12 13:15 CST	0		Source: C-MAN Station
Thunderstorms formed along the Lake Breeze during the early afternoon and moved northeast over the near shore waters of Lake Michigan. The thunderstorms caused gusty winds of 40 to 50 mph inland, and gusts of 30 to 40 knots over portions of the near shore waters.				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	07/17/12 17:00 CST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/17/12 17:15 CST	0		Source: C-MAN Station
Marine observation platform located on the breakwall in Milwaukee harbor recorded 15 minutes of wind gusts to 34 knots.				
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]				
	07/17/12 17:50 CST	0		Marine Thunderstorm Wind (MG 37 kt)
	07/17/12 18:00 CST	0		Source: C-MAN Station
Marine observation platform in Kenosha harbor recorded 15 minutes of wind gusts of 36-37 knots.				
Strong thunderstorms over southeast Wisconsin produced a strong outflow gust front which affected the near shore waters of Lake Michigan.				
PT WASHINGTON TO NORTH PT LT WI COUNTY --- 2.5 ENE NORTH POINT LTHOUSE [43.09, -87.88]				
	07/26/12 01:00 CST	0		Marine Thunderstorm Wind (EG 36 kt)
	07/26/12 01:00 CST	0		Source: Mesonet
St. Robert School in Shorewood reported a wind gust of 36 knots around 2 am CDT.				
An upper level disturbance along with a cool front sagging across the region triggered scattered strong thunderstorms over the shore areas as well as over the near shore waters of Lake Michigan.				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 ESE NORTH POINT LTHOUSE [43.06, -87.87], 4.5 ESE NORTH POINT LTHOUSE [43.05, -87.85]				
	07/27/12 09:15 CST	0		Waterspout
	07/27/12 09:40 CST	0		Source: Public
One waterspout observed by the public including a former NWS student volunteer. The waterspout was observed for about 25 minutes, moving slowly east to southeast away from shore.				
An upper level trough of low pressure was located over eastern Wisconsin and Lake Michigan. The trough combined with instability in the lower atmosphere to spawn showers and thunderstorms. Conditions were favorable for waterspouts over Lake Michigan. One waterspout was observed just northeast of Milwaukee Harbor in the morning.				
SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 1.4 E SHEBOYGAN [43.75, -87.69]				
	07/30/12 22:00 CST	0		Marine Thunderstorm Wind (MG 41 kt)
	07/30/12 22:00 CST	0		Source: C-MAN Station
Sustained winds of 32 knots gusting to 41 knots measured at SGNW3 (Sheboygan) C-Man station.				
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]				
	07/31/12 00:40 CST	0		Marine Thunderstorm Wind (MG 40 kt)
	07/31/12 00:40 CST	0		Source: C-MAN Station
Kenosha C-Man station (KNSW3) recorded wind gust of 40 knots at 140 am CDT.				
An upper level wave of low pressure and a passing cold front triggered scattered strong thunderstorms over the near shore waters of Lake Michigan.				
WISCONSIN, Southeast				

Storm Data and Unusual Weather Phenomena - July 2012

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(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA	07/01/12 00:00 CST	0		Drought
	07/31/12 23:59 CST	0		

The extremely dry conditions that began in June continued in July across southern Wisconsin. Many locations did not see any precipitation until several rounds of thunderstorms moved through the region during the middle and end of the month. While these thunderstorm events held monthly precipitation deficits to between 0.10 and 0.20 of an inch below normal, the modest monthly deficits still increased the yearly precipitation deficits to between 3 and 5 inches. In addition to the continued below normal precipitation, there were several periods of extreme heat that increased the damaging effects on already stressed crops. The rain that did fall came too late for much of the corn crop, as it fell after the critical pollination stage.



Week	Nothing	D0-D4	D1-D4	D2-D4	D3-D4	D4
July 3, 2012	63.17	36.83	17.01	0.00	0.00	0.00
July 17, 2012	47.60	52.40	40.34	26.77	18.68	0.00
July 31, 2012	48.59	51.41	43.27	35.19	9.12	0.00

Progression of drought conditions across Wisconsin during July, 2012. Percentages of area covered by different drought ratings is provided in the table. For the month drought conditions peaked on July 17th since a few weather systems affected the state during the 2nd half of the month.

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA	07/02/12 10:00 CST	4	0	Excessive Heat
	07/06/12 19:00 CST		0	

Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Direct Fatalities: F49PH, F83PH, M42PH, M73PH

A hot air mass settled over southern Wisconsin to start the month of July, bringing 100-degree heat to many locations for multiple days between July 2nd and July 6th. While humidity levels were relatively low considering the temperatures, maximum heat indices still climbed to between 100 and 115 during the hot spell. Milwaukee and Madison each recorded two of the top-ten hottest days on record on July 4th and July 5th. Direct heat-related deaths included: an elderly woman in Rock County, an elderly man in Dane County, a middle-aged woman in the city of Milwaukee and a middle-aged man in the city of Milwaukee. Additionally, an indirectly-related heat fatality (elderly woman) occurred in Rock County in which heat was a secondary cause of death. Based on news reports hundreds of people received medical treatment at hospitals or clinics due to heat-related illnesses, however, the exact number is unknown. These treated people were considered "injured" and a broad estimate of 300 was assigned to south-central and southeast Wisconsin.

The counties surrounding Dane had 4 days of 100 degrees or higher, while counties toward Lake Michigan had 2 or 3 days. The cities of Janesville, Kenosha, Middleton, Sullivan, and Paddock Lake topped out at 106 degrees, which was Wisconsin's highest temperature for the 2012 summer season. Numerous new daily record highs were set as well as record high minimums. The long duration of this excessive heat period makes this probably one of the four most dangerous heat waves to strike southern Wisconsin in recorded history.

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA	07/16/12 11:00 CST	0	Heat
	07/17/12 20:00 CST	0	

Another round of excessive heat hit southern Wisconsin mid-month, with high temperatures in the mid to upper 90s and dew points in the mid to upper 60s on both July 16th and July 17th. The heat and humidity combined to produce heat index values between 100 and 110. The 110 value was recorded at Black Earth in western Dane County.

FOND DU LAC COUNTY --- FOND DU LAC [43.78, -88.45]	07/17/12 15:30 CST	5K	Thunderstorm Wind (MG 54 kt)
	07/17/12 15:40 CST	0	Source: ASOS

The ASOS at Fond Du Lac County Airport recorded a wind gust of 62 mph (54 knots).

An outflow boundary from a line of strong thunderstorms that dropped south with a cold front across Southeast Wisconsin and eastern portions of South Central Wisconsin produced gusty winds that briefly pulsed up to severe levels over Fond Du Lac County during the late afternoon hours of July 17th. Law enforcement officials reported trees and power lines were downed by the gusty winds in the City of Fond Du Lac even though no thunderstorm cells actually moved over the city.

(WI-Z056) SAUK, (WI-Z062) IOWA, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK	07/18/12 13:00 CST	0	Heat
	07/18/12 16:00 CST	0	

The bubble of upper-level high pressure that kept much of the middle of the U.S. in extreme heat during July of 2012, pushed back into southwest sections of Wisconsin during the afternoon of July 18th. High temperatures of 98F to 100F combined with dew point temperatures of 65F to 70F to produce maximum heat index values ranging from 100 to 104 over Sauk, Iowa, Lafayette, Green and Rock counties.

SAUK COUNTY --- LONE ROCK AIRPORT [43.21, -90.19]	07/18/12 16:41 CST	0	Thunderstorm Wind (MG 52 kt)
	07/18/12 16:41 CST	0	Source: ASOS

IOWA COUNTY --- 2.0 N HIGHLAND [43.08, -90.38]	07/18/12 16:42 CST	0	Thunderstorm Wind (EG 56 kt)
	07/18/12 16:42 CST	0	Source: Law Enforcement

Law enforcement officials reported a hay wagon was blown over by severe thunderstorm wind gusts estimated at 65 mph (56 knots).

ROCK COUNTY --- EVANSVILLE [42.78, -89.30]	07/18/12 16:43 CST	0	Hail (1.00 in)
	07/18/12 16:43 CST	0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - July 2012

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ROCK COUNTY --- 2.0 N ORFORDVILLE [42.66, -89.25]				
	07/18/12 16:50 CST		0	Thunderstorm Wind (EG 50 kt)
	07/18/12 16:50 CST		0	Source: Trained Spotter
A trained spotter reported many large tree branches blown down by damaging thunderstorm winds estimated to be 58 mph (50 knots).				
ROCK COUNTY --- 4.0 N ORFORDVILLE [42.69, -89.25]				
	07/18/12 16:50 CST		6K	Hail (2.00 in)
	07/18/12 16:50 CST		0	Source: Trained Spotter
Hail up to 2 inches in diameter damaged the roof on a farm house 4 miles north of the town of Orfordville.				
SAUK COUNTY --- SAUK CITY [43.27, -89.73]				
	07/18/12 16:50 CST		0	Thunderstorm Wind (EG 70 kt)
	07/18/12 17:15 CST		0	Source: Law Enforcement
Law enforcement officials reported building damage in Sauk City caused by severe thunderstorm wind gusts estimated at 80 mph (70 knots).				
IOWA COUNTY --- 7.0 NNW DODGEVILLE [43.06, -90.18]				
	07/18/12 16:51 CST		0	Thunderstorm Wind (EG 56 kt)
	07/18/12 16:51 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines blown down by severe thunderstorm wind gusts estimated at 65 mph (56 knots).				
ROCK COUNTY --- 1.0 ENE ORFORDVILLE [42.64, -89.23]				
	07/18/12 16:54 CST		0	Thunderstorm Wind (EG 56 kt)
	07/18/12 16:54 CST		0	Source: Trained Spotter
A trained spotter reported trees and power lines blown down by severe thunderstorm wind gusts estimated at 65 mph (56 knots).				
DANE COUNTY --- 1.0 E MT HOREB [43.00, -89.71]				
	07/18/12 17:35 CST		0	Thunderstorm Wind (MG 62 kt)
	07/18/12 17:35 CST		0	Source: Trained Spotter
A trained spotter measured a severe thunderstorm wind gust of 71 mph (62 knots).				
GREEN COUNTY --- 3.3 SW MONROE [42.57, -89.68]				
	07/18/12 18:12 CST		0	Thunderstorm Wind (MG 53 kt)
	07/18/12 18:15 CST		0	Source: Amateur Radio
A ham radio operator measured a severe thunderstorm wind gust of 61 mph (53 knots).				
ROCK COUNTY --- 3.0 NW ORFORDVILLE [42.66, -89.29]				
	07/18/12 18:20 CST		3K	Lightning
	07/18/12 18:20 CST		0	Source: Law Enforcement
Law enforcement officials reported a telephone pole caught fire after being struck by lightning northwest of Orfordville.				
JEFFERSON COUNTY --- 5.0 SW WATERTOWN [43.15, -88.79]				
	07/18/12 18:25 CST		0	Thunderstorm Wind (EG 52 kt)
	07/18/12 18:25 CST		0	Source: Trained Spotter
A trained spotter reported a severe thunderstorm wind gust estimated at 60 mph (52 knots).				
RACINE COUNTY --- 7.0 NW DOWNTOWN RACINE [42.79, -87.90]				
	07/18/12 19:11 CST		0	Thunderstorm Wind (EG 56 kt)
	07/18/12 19:11 CST		0	Source: Amateur Radio
A ham radio operator reported a severe thunderstorm wind gust estimated at 65 mph (56 knots).				

A frontal boundary draped across central and southern Wisconsin was the focus for the development of thunderstorms during the day on July 18th. An upper-level wave moving out of the Plains towards the western Great Lakes provided extra dynamic lift and shear to

Storm Data and Unusual Weather Phenomena - July 2012

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produce severe thunderstorms with large hail up to 2 inches in diameter and damaging wind gusts up to 71 mph during the late afternoon and evening hours. There were many reports of uprooted trees and broken large tree branches and scattered reports of power outages once tree debris fell on power-lines.				
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(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA	07/23/12 13:00 CST		0	Heat
	07/23/12 19:00 CST		0	
The bubble of hot air over the central U.S. again surged back across southern Wisconsin on gusty west-southwest winds of 15 to 25 mph on July 23rd. Temperatures in the 90s combined with dew points in the 60s to lower 70s to produce heat index values between 100 and 109.				
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IOWA COUNTY --- 8.0 E AVOCA [43.18, -90.36]	07/24/12 02:45 CST		0	Thunderstorm Wind (EG 56 kt)
	07/24/12 02:45 CST		0	Source: Law Enforcement
Law enforcement reported trees were blown down by severe thunderstorm wind gusts estimated at 56 knots (64 mph).				
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IOWA COUNTY --- MINERAL PT [42.85, -90.18]	07/24/12 03:05 CST		10K	Thunderstorm Wind (EG 56 kt)
	07/24/12 03:05 CST		0	Source: Law Enforcement
Law enforcement reported trees and power lines were blown down by severe thunderstorm wind gusts estimated at 56 knots (64 mph).				
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LAFAYETTE COUNTY --- DARLINGTON [42.68, -90.12]	07/24/12 03:05 CST		10K	Thunderstorm Wind (EG 56 kt)
	07/24/12 03:05 CST		0	Source: Law Enforcement
Law enforcement reported trees and power lines were blown down by severe thunderstorm wind gusts estimated at 56 knots (64 mph).				
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GREEN COUNTY --- 5.0 SW NEW GLARUS [42.77, -89.70]	07/24/12 03:16 CST		0	Thunderstorm Wind (EG 56 kt)
	07/24/12 03:16 CST		0	Source: Emergency Manager
Emergency management officials reported trees and numerous power lines were blown down throughout the county by severe thunderstorm wind gusts estimated at 56 knots (64 mph). A window at a car dealership in Monroe was blown out by the damaging winds.				
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LAFAYETTE COUNTY --- GRATIOT [42.58, -90.02], SOUTH WAYNE [42.57, -89.88]	07/24/12 03:18 CST		0	Thunderstorm Wind (EG 56 kt)
	07/24/12 03:25 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines were blown down in a swath from Gratiot to South Wayne by severe thunderstorm wind gusts estimated at 56 knots (64 mph).				
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GREEN COUNTY --- MONROE [42.60, -89.63]	07/24/12 03:20 CST		0	Thunderstorm Wind (EG 56 kt)
	07/24/12 03:20 CST		0	Source: Trained Spotter
A trained spotter reported trees and power lines were blown down by severe thunderstorm wind gusts estimated at 56 knots (64 mph). Heavy rains also caused a rain gutter to back up with water covering State Highway 69 in Monroe.				
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GREEN COUNTY --- 3.0 SW MONROE [42.57, -89.67]	07/24/12 03:42 CST		0	Thunderstorm Wind (MG 52 kt)
	07/24/12 03:42 CST		0	Source: Trained Spotter
A trained spotter measured a severe thunderstorm wind gust estimated at 52 knots (60 mph).				
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ROCK COUNTY --- EVANSVILLE [42.78, -89.30], ORFORDVILLE [42.63, -89.25]	07/24/12 03:45 CST		0	Thunderstorm Wind (EG 61 kt)
	07/24/12 03:55 CST		0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - July 2012

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Law enforcement officials reported trees and power lines were blown down by severe thunderstorm wind gusts estimated at 61 knots (70 mph).				
ROCK COUNTY --- BELOIT [42.52, -89.03]				
	07/24/12 04:00 CST		0	Thunderstorm Wind (EG 65 kt)
	07/24/12 04:00 CST		0	Source: Newspaper
A local newspaper reported trees and power lines were blown down all over the county by severe thunderstorm wind gusts estimated at 65 knots (75 mph). The fallen trees blocked roads in residential neighborhoods on the west side of Beloit, as well as on State Highway 213 between Luther Valley Road and Yahara Road. Homes and vehicles were damaged by storm debris. It was estimated 7,000 people were without power. A residential fire on Lincoln Avenue in Beloit was possibly started by lightning.				
WALWORTH COUNTY --- SHARON [42.50, -88.73]				
	07/24/12 04:16 CST		0	Thunderstorm Wind (EG 56 kt)
	07/24/12 04:16 CST		0	Source: Law Enforcement
Law enforcement officials reported trees were blown down by severe thunderstorm wind gusts estimated at 56 knots (65 mph).				
WALWORTH COUNTY --- 3.0 SW LAKE GENEVA [42.57, -88.47], LAKE GENEVA [42.60, -88.43]				
	07/24/12 04:23 CST		0	Thunderstorm Wind (EG 56 kt)
	07/24/12 04:30 CST		0	Source: Law Enforcement
Law enforcement officials reported scattered trees and a power pole were blown down by severe thunderstorm wind gusts estimated at 56 knots (65 mph) in a swath from 3 miles southwest of Lake Geneva to Lake Geneva.				
A strengthening low-level jet pushed over a stalled frontal boundary over southern Wisconsin with a very warm, moist and unstable air mass under very steep lapse rates provided the focus for strong to severe thunderstorms during the pre-dawn hours of July 24th. The severe thunderstorms produced a discontinuous swath of damaging wind gusts that downed trees and power lines from near Darlington in Lafayette County, eastward across Green and Rock counties to Lake Geneva in Walworth County.				
(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA				
	07/25/12 13:00 CST		0	Heat
	07/25/12 20:00 CST		0	
Another round of dangerous heat affected southern Wisconsin on July 25th. High temperatures topped out between 98 and 101 degrees, with dew points near 70 combining with the hot temperatures to produce heat index values between 100 and 108 across all of South Central and Southeast Wisconsin. This heat wave resulted in the 6th day in 2012 with maximum temperatures reaching 100 degrees in the counties of Rock, Walworth, Jefferson, and Waukesha. Ultimately, the average temperature for the month of July 2012 of 79.4 degrees was the 2nd warmest on record (79.8 in 1901). Milwaukee's 78.6 tied for 1st place with July of 1921.				
IOWA COUNTY --- 5.0 WSW AVOCA [43.15, -90.61], AVOCA [43.18, -90.52]				
	07/25/12 22:40 CST		0	Thunderstorm Wind (EG 65 kt)
	07/25/12 22:40 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines blown down along a swath from 5 miles west southwest of Avoca to Avoca by damaging thunderstorm wind gusts estimated up to 65 knots (70 mph).				
LAFAYETTE COUNTY --- SHULLSBURG [42.57, -90.23]				
	07/25/12 22:51 CST		0	Thunderstorm Wind (EG 56 kt)
	07/25/12 22:51 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines blown down in Shullsburg by damaging thunderstorm wind gusts estimated up to 56 knots (65 mph).				
SAUK COUNTY --- LONE ROCK AIRPORT [43.21, -90.19]				
	07/25/12 22:56 CST		0	Thunderstorm Wind (MG 55 kt)
	07/25/12 22:56 CST		0	Source: ASOS
The ASOS at Lone Rock Airport measured a thunderstorm wind gust of 56 knots (55 mph).				
LAFAYETTE COUNTY --- DARLINGTON [42.68, -90.12]				

Storm Data and Unusual Weather Phenomena - July 2012

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	07/25/12 23:03 CST		0	Thunderstorm Wind (EG 56 kt)
	07/25/12 23:03 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines blown down in Darlington by damaging thunderstorm wind gusts estimated up to 56 knots (65 mph).				
DODGE COUNTY --- FOX LAKE [43.57, -88.90]				
	07/25/12 23:08 CST		0	Thunderstorm Wind (EG 56 kt)
	07/25/12 23:08 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and a power pole were blown down in Fox Lake by damaging thunderstorm wind gusts estimated up to 56 knots (65 mph).				
LAFAYETTE COUNTY --- SOUTH WAYNE [42.57, -89.88]				
	07/25/12 23:11 CST		0	Thunderstorm Wind (EG 56 kt)
	07/25/12 23:11 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines blown down in South Wayne by damaging thunderstorm wind gusts estimated up to 56 knots (65 mph).				
LAFAYETTE COUNTY --- ARGYLE [42.70, -89.87]				
	07/25/12 23:13 CST		0	Thunderstorm Wind (EG 56 kt)
	07/25/12 23:13 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and a power pole were blown down in Argyle by damaging thunderstorm wind gusts estimated up to 56 knots (65 mph).				
GREEN COUNTY --- MONROE AIRPORT [42.62, -89.59]				
	07/25/12 23:33 CST		0	Thunderstorm Wind (MG 56 kt)
	07/25/12 23:33 CST		0	Source: AWOS
The AWOS at Monroe Airport measured a thunderstorm wind gust of 57 knots (64 mph).				
FOND DU LAC COUNTY --- FOND DU LAC AIRPORT [43.77, -88.49]				
	07/25/12 23:38 CST		0	Thunderstorm Wind (MG 62 kt)
	07/25/12 23:38 CST		0	Source: ASOS
The ASOS at Fond Du Lac Airport measured a thunderstorm wind gust of 62 knots (71 mph).				
FOND DU LAC COUNTY --- FOND DU LAC [43.78, -88.45]				
	07/26/12 00:15 CST		0	Thunderstorm Wind (EG 56 kt)
	07/26/12 00:15 CST		0	Source: Trained Spotter
A trained spotter reported trees blown down by severe thunderstorm wind gusst estimated at 65 mph (56 knots).				
JEFFERSON COUNTY --- FT ATKINSON [42.93, -88.85]				
	07/26/12 00:16 CST		0	Thunderstorm Wind (EG 57 kt)
	07/26/12 00:16 CST		0	Source: NWS Employee
An NWS employee reported trees, large branches and power lines blown down in Fort Atkinson by damaging thunderstorm wind gusts estimated at 57 knots (65 mph).				
JEFFERSON COUNTY --- 2.0 S PALMYRA [42.85, -88.60], 2.0 N PALMYRA [42.91, -88.60]				
	07/26/12 00:30 CST		0	Thunderstorm Wind (MG 55 kt)
	07/26/12 00:39 CST		0	Source: Mesonet
Numerous trees were blown down along a path from 2 miles south of Palmyra to 2 miles north of Palmyra by damaging thunderstorm wind gusts measured at a mesonet site at 55 knots (63 mph).				
WAUKESHA COUNTY --- 3.5 SW OCONOMOWOC [43.08, -88.53]				
	07/26/12 00:30 CST		0	Thunderstorm Wind (EG 61 kt)
	07/26/12 00:30 CST		0	Source: NWS Employee

Storm Data and Unusual Weather Phenomena - July 2012

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An NWS employee reported a trampoline was blown into a house window by damaging wind gusts estimated at 70 mph (61 knots).				
JEFFERSON COUNTY --- 3.0 NNE SULLIVAN [43.06, -88.56]				
	07/26/12 00:40 CST		0	Thunderstorm Wind (EG 56 kt)
	07/26/12 00:40 CST		0	Source: NWS Employee
An NWS employee reported a severe thunderstorm wind gust estimated at 65 mph (56 knots).				
WAUKESHA COUNTY --- DELAFIELD [43.07, -88.40], PEWAUKEE [43.08, -88.27]				
	07/26/12 00:40 CST		25K	Thunderstorm Wind (EG 61 kt)
	07/26/12 00:40 CST		0	Source: Newspaper
A local newspaper reported trees and power lines were downed and a few homes damaged by severe thunderstorm wind gusts estimated at 70 mph (61 knots).				
WASHINGTON COUNTY --- 1.0 N RICHFIELD [43.26, -88.20]				
	07/26/12 00:53 CST		0	Thunderstorm Wind (EG 52 kt)
	07/26/12 00:53 CST		0	Source: Storm Chaser
A storm chaser reported a large road sign was blown down by severe thunderstorm wind gusts estimated at 60 mph (52 knots).				
WAUKESHA COUNTY --- 3.0 NW BIG BEND [42.91, -88.24]				
	07/26/12 00:53 CST		0	Thunderstorm Wind (EG 56 kt)
	07/26/12 00:53 CST		0	Source: Public
The public reported an anchored gazebo was blown over by severe thunderstorm wind gusts estimated at 65 mph (56 knots).				
WAUKESHA COUNTY --- WAUKESHA CO ARPT [43.04, -88.23]				
	07/26/12 00:54 CST		0	Thunderstorm Wind (MG 51 kt)
	07/26/12 00:54 CST		0	Source: AWOS
The AWOS at Waukesha County Airport (Crites Field) measured a severe thunderstorm wind gust of 59 mph (53 knots).				
A line of scattered to broken supercell thunderstorms formed along a cold front that was slicing into a very warm, unstable air mass over the Upper Midwest. The combination of wind shear and CAPE provided ideal conditions for the supercells to congeal into a bowing mesoscale convective system that roared west to east across southern Wisconsin during the late evening hours of July 25th and early overnight hours of July 26th. Damaging wind gusts from the severe thunderstorm complex produced numerous reports of downed trees, power lines and some property damage to homes and businesses.				
FOND DU LAC COUNTY --- 2.0 SE FOND DU LAC [43.76, -88.42]				
	07/30/12 21:40 CST		0	Hail (1.50 in)
	07/30/12 21:40 CST		0	Source: Emergency Manager
The Fond Du Lac Emergency Manager reported large hail, estimated to be 1.50 inches in diameter, fell 2 miles southeast of the city of Fond Du Lac.				
DANE COUNTY --- SUN PRAIRIE [43.18, -89.20]				
	07/30/12 22:39 CST		0	Hail (1.00 in)
	07/30/12 22:39 CST		0	Source: Law Enforcement
Law enforcement officers reported large hail, estimated to be 1 inch in diameter, fell in Sun Prairie.				
DANE COUNTY --- 1.0 NW SUN PRAIRIE [43.19, -89.21]				
	07/30/12 22:40 CST		0	Hail (1.00 in)
	07/30/12 22:40 CST		0	Source: Trained Spotter
A trained spotter reported large hail, measured to be 1 inch in diameter, that fell 1 mile northwest of Sun Prairie.				
DANE COUNTY --- 3.0 SE MARSHALL [43.14, -89.01]				
	07/30/12 23:00 CST		0	Hail (1.00 in)
	07/30/12 23:00 CST		0	Source: Public
The public reported large hail, measured to be 1 inch in diameter, that fell 3 miles southeast of Marshall.				

Storm Data and Unusual Weather Phenomena - July 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
JEFFERSON COUNTY --- PALMYRA [42.88, -88.60]				
	07/30/12 23:37 CST		0	Thunderstorm Wind (EG 52 kt)
	07/30/12 23:37 CST		0	Source: Trained Spotter
A trained spotter in Palmyra reported thunderstorm wind gusts estimated to be 60 mph (52 knots).				
WALWORTH COUNTY --- 3.0 ENE LA GRANGE [42.82, -88.55], 5.0 ENE LA GRANGE [42.83, -88.51]				
	07/30/12 23:50 CST		0	Thunderstorm Wind (EG 56 kt)
	07/30/12 23:55 CST		0	Source: 911 Call Center
The Walworth 911 Call Center received numerous reports of trees blown down by thunderstorm wind gusts estimated to be 65 mph (56 knots). A road was blocked by a fallen tree.				
WAUKESHA COUNTY --- 2.0 E NORTH PRAIRIE [42.93, -88.36]				
	07/30/12 23:50 CST		0	Hail (1.00 in)
	07/30/12 23:50 CST		0	Source: Trained Spotter
A trained spotter reported large hail, measured to be 1 inch in diameter, that fell 2 miles east of North Prairie.				
WAUKESHA COUNTY --- 6.0 SW MUSKEGO [42.84, -88.21]				
	07/30/12 23:57 CST		0	Thunderstorm Wind (EG 52 kt)
	07/30/12 23:57 CST		0	Source: Law Enforcement
Law enforcement officials reported a tree blown down by thunderstorm wind gusts estimated to be 60 mph (52 knots) near the intersection of Big Bend Road and North Lake Drive.				
RACINE COUNTY --- 5.0 NNW WATERFORD [42.84, -88.26]				
	07/31/12 00:05 CST		0	Thunderstorm Wind (EG 56 kt)
	07/31/12 00:10 CST		0	Source: 911 Call Center
The Racine 911 Call Center received reports of large trees blown down by thunderstorm wind gusts estimated to be 65 mph (56 knots) in the Caldwell area and in the Tichigan area west and north of Tichigan Lake. There were also reports of power lines arcing from damage due to the severe wind gusts.				
RACINE COUNTY --- 2.0 N DOWNTOWN RACINE [42.75, -87.80]				
	07/31/12 00:30 CST		25K	Hail (1.00 in)
	07/31/12 00:30 CST		0	Source: Trained Spotter
A trained spotter reported large hail, estimated to be 1 inch in diameter, that fell 2 miles north of Racine. The hail damaged roofs and windows to several homes.				
The month ended with several lines of strong and severe thunderstorms crossing Southeast Wisconsin during the late evening hours of July 30th into the early morning hours of July 31st. Hail up to 1.50 inch in diameter and damaging wind gusts up to 65 mph affected Fond Du Lac County with the first line, with a second line hitting locations along and south of the Interstate 94 corridor from Dane County east to Lake Michigan. WE Energies reported 15,000 customers were without power.				